



## Climate change impacts on water salinity and health

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### Abstract:

It is estimated that 884 million people do not have access to clean drinking water in the world. Increasing salinity of natural drinking water sources has been reported as one of the many problems that affect low-income countries, but one which has not been fully explored. This problem is exacerbated by rising sea-levels, owing to climate change, and other contributing factors, like changes in fresh water flow from rivers and increased shrimp farming along the coastal areas. In some countries, desalination plants are used to partly remove salt and other minerals from water sources, but this is unlikely to be a sustainable option for low-income countries affected by high salinity. Using the example of Bangladesh as a model country, the following research indicates that the problem of salinity can have serious implications with regard to rising rates of hypertension and other public health problems among large sectors of the worldwide population. © 2011.

**Source:** <http://dx.doi.org/10.1016/j.jegh.2011.09.001>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Food/Water Quality, Food/Water Security, Sea Level Rise

**Food/Water Quality:** Other Water Quality Issue

**Water Quality (other):** Salinity

#### Geographic Feature:

resource focuses on specific type of geography

Freshwater

#### Geographic Location:

resource focuses on specific location

Non-United States, United States

**Non-United States:** Asia, Australasia, Europe, Central/South America

**Asian Region/Country:** Other Asian Country

# Climate Change and Human Health Literature Portal

**Other Asian Country:** Bangladesh

**European Region/Country:** European Country

**Other European Country :** The Netherlands

**Health Impact:** 

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Dermatological Effect, Developmental Effect, Infectious Disease, Respiratory Effect

**Cardiovascular Effect:** Other Cardiovascular Effect

**Cardiovascular Disease (other):** Hypertension

**Developmental Effect:** Reproductive

**Infectious Disease:** Foodborne/Waterborne Disease

**Foodborne/Waterborne Disease:** General Foodborne/Waterborne Disease

**Mitigation/Adaptation:** 

mitigation or adaptation strategy is a focus of resource

Adaptation

**Population of Concern:** A focus of content

**Population of Concern:** 

populations at particular risk or vulnerability to climate change impacts

Low Socioeconomic Status, Pregnant Women

**Resource Type:** 

format or standard characteristic of resource

Research Article

**Timescale:** 

time period studied

Time Scale Unspecified

**Vulnerability/Impact Assessment:** 

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content